

ABSTRACT

The invention includes compositions and methods for the selective inhibition of cytokine-mediated NF- κ B activation by blocking the interaction of NEMO with I κ B kinase- β (IKK β) at the NEMO binding domain (NBD). The blockade of IKK β -NEMO interaction resulting in inhibition of IKK β kinase activity and subsequent decreased phosphorylation of I κ B. Phosphorylation of I κ B being an integral step in cytokine-mediated NF- κ B activation. The invention further includes methods for screening for agents capable of interacting at the NBD and therapeutic uses for such agents in pathological disorders caused by dysregulation of NF- κ B activation.

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